

ABSTRACT

Suba17 This invention is primarily concerned with controlling a computer by thoughts in the brain. The mode described applies stimuli of the brain via Magnetic Source Imaging (MSI) to computer control. Patterns of brain stimuli are recorded along with thoughts that produced them and interpreted as functions as if coming from a keyboard or a mouse. Thus, predetermined computer operations are executed as a result of thinking "controlling" thoughts to produce a Thought Controlled System (TCS).

Human interaction between the TCS and the user is by way of brain stimuli and communications such as visual and audio. A user profile is maintained and displayed along with selected pictures for assistance with relating stimuli/thought patterns. Artificial intelligence enhances stimuli selection, human factors and reliability as well as analyzing past errors, adverse occurrences and performance.

Criteria of acceptance of thought stimuli are generated. User identification is performed. Analyses and summaries are produced for psychiatrists, psychologists, researchers and users to study system enhancement, biofeedback, psychological impact, brain activity, localization and identification of feelings and thought patterns. TCS substitutes for diseased areas between the brain and other parts of the body. Body stimuli is monitored at locations other than the brain. Custom sensors enhance mobility and utility. Various functions are applied to animals.